

# Chemical Resistance of Rubber Materials

Chemicals	NR	CR	NBR	EPT	IIR	CSM	SBR	Urethane
アセトアルデヒド Acetaldehyde	△	×	×	○	◎	△	×	×
アセトン Acetone	○	△	×	○	◎	○	○	×
アニリン Aniline	△	×	×	○	○	△	×	×
亜麻仁油 (100°C) Linseed Oil (100°C)	×	×	◎	△	○	○	×	○
亜硫酸 Sulfurous Acid	○	○	○	○	○	◎	○	×
塩酸(10%、RT) Hydrochloric Acid (10%, RT)	×	△	○	○	◎	◎	○	△
濃塩酸(36%、RT) Concentrated Hydrochloric Acid (36%, RT)	×	△	○	○	◎	○	○	△
塩化ベンゼン Benzene Chloride	×	×	×	×	×	×	×	×
ガソリン Gasoline	×	△	○	×	×	×	×	○
過酸化水素水(5%、RT) Hydrogen Peroxide Solution (5%, RT)	◎	○	○	◎	○	◎	○	—
蟻酸(25%、RT) Formic Acid (25%, RT)	◎	◎	○	◎	◎	◎	◎	×
キシレン Xylene	×	×	×	×	×	×	×	△
クロム酸(10%、70°C) Chromic Acid (10%, 70°C)	×	×	×	△	△	○	×	×
クレゾール Cresol	×	△	△	×	×	△	×	×
酢酸(10%、RT) Acetic Acid (10%, RT)	○	○	○	○	◎	○	○	×
酢酸エチル Acetic Ether	×	×	×	○	○	×	×	×
臭素 Bromine	×	×	×	×	△	×	×	×
四塩化炭素 Carbon Tetrachloride	×	×	×	×	△	×	×	△
水酸化アンモニウム Ammonium Hydroxide	×	○	○	◎	◎	◎	×	◎
水酸化カルシウム Calcium Hydroxide	◎	◎	◎	◎	◎	◎	◎	◎
水酸化ナトリウム(30%、RT) Sodium Hydroxide (30%, RT)	○	◎	○	◎	◎	○	○	×
硝酸(10%、RT) Nitric Acid (10%, RT)	×	○	△	○	◎	○	○	×
濃硝酸(60%、RT) Concentrated Nitric Acid (60%, RT)	×	×	×	△	△	△	×	×
発煙硝酸(RT) Fuming Nitric Acid (RT)	×	×	×	×	×	×	×	×
シクロヘキサン Cyclohexane	×	×	×	○	○	△	×	×
ジブチルフタレート Dibutyl Phthalate	×	×	×	◎	○	×	×	—
ジエチルエーテル Diethyl Ether	×	△	○	△	△	○	×	◎
トルエン Toluene	×	×	×	×	×	×	×	△
トリエタノールアミン Triethanolamine	○	◎	○	○	◎	◎	○	×
ハイドロキノン Hydroquinone	○	×	△	—	—	×	—	—
ブタン Butane	×	○	◎	×	×	○	×	○
プロパン Propane	×	○	◎	×	×	○	×	△
ベンゼン(ベンゾール) Benzene (Benzol)	×	×	×	×	×	×	×	×
メチルアルコール Methyl Alcohol	◎	◎	◎	◎	◎	◎	◎	×
硫酸(10%、RT) Sulfuric Acid (10%, RT)	△	○	△	○	◎	◎	◎	△
濃硫酸(98%、RT) Concentrated Sulfuric Acid (98%, RT)	×	×	×	△	○	△	×	×
発煙硫酸(RT) Fuming Sulfuric Acid (RT)	×	×	×	×	×	×	×	×
磷酸(75%、RT) Phosphoric Acid	○	○	○	△	—	◎	○	○

- ◎ : Little-affected  
 ○ : Affected in some degree, but afford to be used.  
 △ : Unadvisable to use due to certain amount of affection.  
 × : Not applicable due to heavy affection.

Above listed data indicates general chemical resistant behavior such as swelling rate and etc.

It does not provide any guarantees against chemical resistance.

Please confirm by appropriate tests considering use conditions before use.

※ RT : Room Temperature

- These descriptions can be altered for a reason of improvement without any notification.
- These descriptions shall be as of December 1, 2010.

**TIGERS POLYMER CORPORATION**

TEL: +81-6-6871-8057 FAX: +81-6-6834-1559

E-Mail: [tp@tigers.co.jp](mailto:tp@tigers.co.jp) URL: <http://www.tiger-poly.com/>